

Date: Tue, 7 Dec 93 04:30:21 PST  
From: Ham-Equip Mailing List and Newsgroup <ham-equip@ucsd.edu>  
Errors-To: Ham-Equip-Errors@UCSD.Edu  
Reply-To: Ham-Equip@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Equip Digest V93 #124  
To: Ham-Equip

Ham-Equip Digest                      Tue, 7 Dec 93                      Volume 93 : Issue 124

Today's Topics:

80+miles range radio (phone) equipment needed- any advice  
    << HELP >> WANTED MODS FOR FT-290R  
        ER Magazine  
    Help! Problems with SB-200  
        I wish  
    Manual for Navy CR1-43044/TBY-8, Colonial Radio  
        Need mod info on TS-50S  
        Ramsey FX-146 & FX-440  
    Repeater Problem with HTX-202  
        Wanted FAS-4-1 (yaesu)

Send Replies or notes for publication to: <Ham-Equip@UCSD.Edu>  
Send subscription requests to: <Ham-Equip-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Equip Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-equip".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 6 Dec 93 19:01:54 GMT  
From: ogicse!henson!netnews.nwnet.net!news.u.washington.edu!snowy!  
yuri@network.ucsd.edu  
Subject: 80+miles range radio (phone) equipment needed- any advice  
To: ham-equip@ucsd.edu

Hi,  
and sorry for (may be) wrong group. My frined doesn't have access to Internet,  
but he wants to have radiophone with 80+ (100+) miles range.  
He said, that it should be somathing like (or better than) "Tomahawk-8000".  
We will appreciate any places to call/price ranges-ANY ADVICE.

Please reply directly- I don't read these groups lately.

INTERNET: yuri@atmos.washington.edu  
UUCP: uw-beaver!atmos.washington.edu!yuri

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Date: Mon, 6 Dec 1993 16:29:25 GMT  
From: sdd.hp.com!vixen.cso.uiuc.edu!howland.reston.ans.net!cs.utexas.edu!swrinde!  
sgiblab!cs.uoregon.edu!news.uoregon.edu!netnews.nwnet.net!ns1.nodak.edu!  
badlands.NoDak.edu!walth@network.ucsd.  
Subject: << HELP >> WANTED MODS FOR FT-290R  
To: ham-equip@ucsd.edu

I am looking for any mods that may be available for the Yaesu FT-290R MK  
II radio. I would like to use the radio for out of band RX. Please email  
any mods you may have to walth@badlands.NoDak.EDU. All responses will be  
greatly appreciated.  
Thanks in advance.  
Chris N00XI

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Date: 3 Dec 1993 14:03:45 GMT  
From: news.cerf.net!pagesat!olivea!spool.mu.edu!howland.reston.ans.net!math.ohio-  
state.edu!mane.cgrg.ohio-state.edu!aus1.robins.af.mil!wrdis02.robins.af.mil!  
lakeith@network.ucsd.edu  
Subject: ER Magazine  
To: ham-equip@ucsd.edu

ER  
P. O. Box 57  
Hesperus, CO 81326 Phone/FAX 303-247-4935

\$24/year - 2nd class  
\$34/year - 1st class  
\$35/year - Canada by Air (only)  
\$60/year - Other foreign countries.

Just a satisfied reader.

73,  
Larry, KQ4BY

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Date: Mon, 6 Dec 1993 17:10:47 GMT

From: sdd.hp.com!vixen.cso.uiuc.edu!howland.reston.ans.net!darwin.sura.net!news-feed-2.peachnet.edu!concert!corpgate!nrtpa038!bnr.ca!dstone@network.ucsd.edu  
Subject: Help! Problems with SB-200  
To: ham-equip@ucsd.edu

I recently bought a SB-200 and decided to "upgrade the circuitry." My modifications consisted of the following:

- Replaced the power supply's 125 uF 450V Electrolytic Twist Lock Can Capacitors (Which were leaking. New replacements are very expensive and difficult to find...) with brand new 220 uF 450V electrolytic capacitors (Panasonic TS-Series).
- Replaced all the power supply diodes, and bypassed each with a 0.01 uF 1 kV ceramic disc capacitor and a 470k 1/2 watt resistor (for equalization).
- Replaced the Parasitic Chokes on the 572B Plate Caps. Old chokes were 3 turns wound on 47 Ohm 2 W resistor. New chokes are 2 turns wound on 56 Ohm 2 Watt resistor.
- Repaced 0.001 uF 3kV bypass capacitor on Plate Supply with new 0.001 uF 10kV.
- Cleaned bandswitch.

The following illustates the amplifier performance before and after the modifications were applied: ("After" Values shown in Brackets)

Freq. (MHz)	Output Power (W)	Plate Current (mA)	Plate Voltage (V)
3.500	380 [450]	400 [430]	1800 [1850]
4.000	620 [700]	500 [500]	1800 [1825]
7.000	580 [525]	400 [430]	1800 [1850]
7.300	590 [650]	400 [460]	1800 [1850]
10.100*	250 [500]	340 [460]	1850 [1825]
14.000	690 [250]	500 [250]	1800 [1850]
14.350	600 [280]	400 [250]	1800 [1850]
18.100**	710 [700]	550 [480]	1750 [1800]
21.000	450 [480]	360 [380]	1800 [1850]
21.450	500 [600]	380 [440]	1800 [1850]
24.890***	450 [500]	500 [500]	1750 [1850]
28.000	500 [540]	460 [480]	1800 [1825]
29.700	420 [500]	420 [420]	1800 [1820]

Notes:

- \* = Bandswitch in 20 Meter Position
- \*\* = Bandswitch in 15 Meter Position
- \*\*\* = Bandswitch in 10 Meter Position
- 100 Watts Drive used for all measurements.
- Exciter is SB-1400 in CW mode.

As expected, the power supply improvements generally resulted in a somewhat higher plate voltage and a corresponding higher RF output. HOWEVER, the performance on 20 Meters is greatly WORSE !!!

- a. There is no difference between 20, 15, and 10 meters on the the output network, except for the obvious coil tap and cap setting differences (i.e., on 80 meters, additional fixed caps are switched in), so there are no "unique" output components on 20 meters to fail. The tune/load caps are clean, and all solder joints are good.
- b. I placed an SWR bridge between the exciter and input of the SB-200 to check for input network problems (mismatches). Match was better 1.5:1 on all bands, including 20 meters.

I have considered the possibilty of a bandswitch problem. However, the 20 meter switch position is used to tune for 30 meters, which performed extremely well, indicating the bandswitch is good. [By the way, I AM aware that the maximum legal output on 30 meter is 250 watts. I was testing on the 10 MHz band to get an idea of the amplifier's frequency response. Please, no flames. I do NOT intend to QRO on 30 meters.]

I have swaped the two 572B's with EACH OTHER, but have NOT tried new tubes. Anyway, I doubt seriously that this is the problem.....

I've not probed with a scope and RF probe yet. I'm not sure what to look for. I'm baffled. Any ideas?

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Date: 2 Dec 93 16:46:10 CST  
From: pravda.sdsc.edu!usc!howland.reston.ans.net!spool.mu.edu!umn.edu!msc.edu!cdsmaill!timbuk.cray.com!hemlock.cray.com!cherry10!dadams@network.ucsd.edu  
Subject: I wish  
To: ham-equip@ucsd.edu

I wish you could buy an Icom 735 like radio in pieces like you can with the Ten Tec Scout. Only I wish you didn't have to take out one piece to put the next one in.

You could have a row of expansion slots, like you do with an old PC. One card for extra memories or more bells and wistles. An extra vfo. One for the TNC. One for more bands....

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Sourdough and Ham KG0IO

--David C. Adams      internet: dadams@cray.com  
Statistician          uunet:        uunet!cray!dadams  
Cray Research Inc.    packet:      kg0io@tcman.#msp.mn.usa.noam

Experience    -->   Identify    -->   Analyze    -->   Generalize

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Date: 6 Dec 93 09:34:37 GMT  
From: ogicse!news.tek.com!cascade.ens.tek.com!not-for-mail@network.ucsd.edu  
Subject: Manual for Navy CR1-43044/TBY-8, Colonial Radio  
To: ham-equip@ucsd.edu

I have the following and am looking to fire it up. A manual would be most helpful. Willing to pay copying and mailing charges.

Type CR1-43044  
A unit of TBY-8 Radio  
Navy Dept. - Bureau of Ships  
Colonial Radio Corp., Buffalo NY  
Contract NXSR377099

Thanks, Russ N7DHK (ex WA9SSR)

+-----+  
| Russell D. Mickiewicz (503)627-3455 Internet: r.mickiewicz@tek.com      |  
| Tektronix Telecomm Services 50-454, P.O. Box 500, Beaverton, OR 97077 |  
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Date: Wed, 01 Dec 1993 22:27:43 -0800  
From: qualcomm.com!vixen.cso.uiuc.edu!howland.reston.ans.net!sol.ctr.columbia.edu!  
news.kei.com!nic.hookup.net!news.sprintlink.net!news.world.net!teleport.com!  
NewsWatcher!user@network.ucsd.edu  
Subject: Need mod info on TS-50S  
To: ham-equip@ucsd.edu

I'm going offshore in my sailboat, and I'd like to set up my TS-50S for use on marine SSB frequencies. Is there a simple mod to allow "out of ham band" transmit?

Thanks in advance...

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Charles Vollum <n7bpt> <moana@teleport.com> <AppleLink: MOANA>  
PGP key on request... "Growing older, but not up!" -- Jimmy Buffett

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Date: 2 Dec 1993 19:54:14 GMT  
From: qualcomm.com!vixen.cso.uiuc.edu!howland.reston.ans.net!news.ans.net!  
malgudi.oar.net!news.yzu.edu!yfn.yzu.edu!ag821@network.ucsd.edu  
Subject: Ramsey FX-146 & FX-440  
To: ham-equip@ucsd.edu

In a previous article, jim@unssun.scs.unr.edu (James Mueller) says:

>I would like to hear comments on the Ramsey FX-146 & FX-440 kits. Has  
>anyone built either of these? How well do they perform? Are there many  
>of them on the air? Thanks.

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> Jim Mueller | Work : (702) 689-3111 | net: jim@unssun.scs.unr.edu  
> 11865 Deodar Way | Home : (702) 677-2775 | Ham Call: WB7AUE  
> Reno, NV 89506 | FAX : (702) 689-3995 |

>

>

>

I built the Ramse 146.. and use it on packet. I remember a long  
discussion on the topic a while back.. many people had them ovrk  
the first time mine had bad crystals and I needed to pad them. If you  
are looking to just build, it is kind of a nice project.. the equipment  
is kinda juknkey and Ramsey is a garbade compaany.. the owner is a liar,  
some of the components were excellent, some were terrible.

A Phd here in EE department purchased the 440.. different design  
he never got it ovrking and went on and on about how bad the  
design was.

If you want good equipment of this type.. buy it built

I love to build and like to operate mostly stuff I have built.

E-Mail me  
direct if you want more specifics .

73

Jeff, AC4HF

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Jeff M. Gold, AC4HF  
Manager, Academic Computing Support  
Tennessee Technological University

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Date: 6 Dec 93 22:43:02 GMT  
From: ogicse!news.tek.com!tekgen!sail!scottd@network.ucsd.edu  
Subject: Repeater Problem with HTX-202  
To: ham-equip@ucsd.edu

Hi,

I'm having some trouble connecting to autopatch on a local repeater when I use an older Radio Shack HTX-202 Transciever. There appears to be an equipment problem but it isn't clear exactly what is wrong with my equipment and I'm wondering if the net has any suggestions.

There are two autopatches in our area. One of them I can reach fine (on 147.320) and the other one I cannot get through to (on 147.040). It is not a case of operator error or being too distant from the station. A friend of mine has a newer model of the HTX-202. We took both radios out to the car, choose the identical setting, same antenna and same power supply. With my radio neither of us could get through, with his radio both of us could get through. The problem seems to be that the DTMF access code isn't being recognized by one repeater, but is ok on the other one.

To check to make sure my radio was reaching the transmitter we talked through it and the voice came through clearly. We couldn't check how well the DTMF tones went through this repeater because the repeater blocks these tones but we did go to simplex and the tones seemed to sound just fine.

I'm not really certain what is wrong. I'd guess that my DTMF tones are not perfect and one autopatch is just more sensitive than the other. Does this sound reasonable? Any other suggestions as to why I'm not getting through? I'd like to bring my transciever into radioshack and have them look at it but I'd like to have some idea of what is wrong.

Thanks in advance for all suggestions. Please e-mail suggestions to me and I'll summarize responses if there is any interest.

	Scott Diamond
\    /	Tektronix, Test and Measurement Division
/   \	Beaverton, Oregon
< s >	scott.k.diamond@tek.com
\   /	wk phone: (503) 627-6304
/    \	hm phone: (503) 643-6779

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Date: Thu, 2 Dec 1993 19:52:23 GMT  
From: netcomsv!netcom.com!pineapp@decwrl.dec.com  
Subject: Wanted FAS-4-1 (yaesu)  
To: ham-equip@ucsd.edu

I am looking for one Yaesu FAS-4-1 antenna selector. Please send me e-mail  
if you want to sell yours.

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INTERNET: pineapp@netcom.com	Daniel Curry WB6STW
AMPRNET : dan@wb6stw.ampr.org [44.4.20.144]	E-:-) Ham Radio Operator
AX.25 : wb6stw@n0ary.#NOCAL.CA.USA.NA	Redwood City, CA USA

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End of Ham-Equip Digest V93 #124

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